

Amendments to the Claims

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
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7. (Canceled)
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16. (Canceled)
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19. (Canceled)
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21. (Canceled)
22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (Currently amended) A wall panel comprising:
 - (a) spaced apart first and second concrete layers;
 - (b) an insulation layer between the concrete layers;
 - (c) a plurality of elongated connectors having a body extending through the insulation layer and having opposite ends embedded in the concrete layers, such that each end is surrounded by concrete, wherein the body has elongated portions longitudinally extending for the length of the body, wherein the longitudinally extending portions are laterally spaced apart and connected by an internal web of thinner or equal thickness running the length of the body; and

(d) each connector having first and second anchorage surfaces adjacent to each end of the connector capable of transferring tension and compression forces along and parallel to the longitudinally extended portions.

26. (Previously presented) The wall panel of claim 25 wherein the connectors transfer forces between the first and second concrete layers whereby the wall has a substantially composite character.

27. (Currently amended) The wall panel of claim 25 wherein the connectors further comprise a centrally located region comprising a premolded, perpendicularly extending lip for locating the connector within the insulation layer, thereby regulating depth of embedment within the concrete layer.

28. (Previously presented) The wall panel of claim 25 wherein the connectors are made from a polymer material including fiber reinforcements having thermal conductivity significantly lower than steel.

29. (Previously presented) A connector for an insulated concrete wall comprising an elongated wide-body having longitudinally extending portions running the length of the connector between opposite ends, spaced apart and connected by an internal web of thinner or equal thickness and running the length of the connector between opposite ends.

30. (Previously presented) The connector of claim 29 further comprising anchoring surfaces adjacent each end, configured such that tension and compression forces are transferred simultaneously through first and second longitudinally extending portions.

31. (Previously presented) The connector of claim 29 wherein the connector transfers forces between the first and second concrete layers such that the wall is substantially composite in character.

32. (Currently amended) The connector of claim 29 further comprising a centrally located region with a premolded, perpendicularly extending lip for locating the connector within the insulation layer, thereby regulating the depth of embedment within the concrete layer.

33. (Previously presented) The connector of claim 29 further comprising a polymer material including fiber reinforcements having thermal conductivity significantly lower than steel, wherein the polymer material is selected from the group comprising fiber-reinforced thermoplastic resin and fiber-reinforced thermoset resin.

34. (Previously presented) The connector of claim 29 wherein the opposite first and second anchorage ends are anchored in first and second layers of concrete such that bending, shear, tensile and compressive forces in one of the concrete layers is transferred by the connector to the other of the concrete layers.

35. (Previously presented) The wall panel of claim 25, further comprising an anchoring surface formed transversely across the longitudinally extended portions.

36. (Previously presented) The connector of claim 29, further comprising an anchoring surface formed transversely across the longitudinally extended portions.

37. (Currently amended) A wall panel comprising:

- (a) spaced apart first and second concrete layers;
- (b) an insulation layer between the concrete layers;
- (c) a plurality of elongated connectors extending through the insulation layer and having opposite ends entirely embedded in the concrete layers, wherein each connector has parallel longitudinally extending portions between opposite ends of the connector, laterally spaced apart and connected by an internal web of thinner or equal thickness extending between opposite ends of the connector; and

(d) each connector having first and second anchorage surfaces capable of transferring tension and compression forces along and parallel to the longitudinally extended portions.

38. (Previously presented) A wall panel comprising:

(a) spaced apart first and second concrete layers;

(b) an insulation layer between the concrete layers;

(c) a plurality of elongated connectors extending through the insulation layer and having opposite ends embedded in the concrete layers, wherein each connector has longitudinally extending portions running the length of the connector, laterally spaced apart, arranged side by side and connected by an internal web of thinner or equal thickness, wherein extends between opposite ends of the connector; and

(d) each connector having first and second anchorage surfaces capable of transferring tension and compression forces along and parallel to the longitudinally extended portions.